

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (CURRENTLY AMENDED) A method ~~for the identification of physiologically active peptides~~ of identifying a peptide as a receptor agonist or antagonist, the said method comprising the steps of:

~~identifying amino acid sequences of receptors having one or more variants in size, the receptors being receptive of an identical ligand and being products of the same gene, the receptor being a receptor of a substance when there is present in vivo a substance or cell which has a functional antagonism against the ligand for the receptor, or the receptor being a receptor of a substance A wherein there is present in vivo a cell or substance which has a functional antagonism to cells on which the substance A causes an effect;~~ a receptor that naturally occurs in two or more forms differing from one another in the length of their respective amino acid sequences, said differing receptor forms being receptive of a common ligand and being alternate products of a common gene;

~~identifying which a domain in the larger receptor is missing from the smaller receptor; and~~ domain that is present in the amino acid sequence of a larger form of said receptor but absent from the amino acid sequence of a smaller form of said receptor;

synthesizing a peptide consisting of the amino acid sequence of said domain; and

testing a said peptide for agonistic or antagonistic activity towards said receptor or said common ligand.

2. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein: the receptors are receptors of the 7-transmembrane type.